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west virginia department of environmental protection

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Division of Air Quality  
601 57<sup>th</sup> Street, SE  
Charleston, WV 25304-2345  
Phone: 304 926 0475 • Fax: 304 926 0479

Jim Justice, Governor  
Austin Caperton, Cabinet Secretary  
[www.dep.wv.gov](http://www.dep.wv.gov)

April 14, 2017

**By email to [bschatz@anteroresources.com](mailto:bschatz@anteroresources.com)**

Barry Schatz  
Antero Resources  
1615 Wynkoop Street  
Denver, CO 80202

Re: Approved Registration Issuance  
Antero Resources Corporation  
Ritchie Well Pad  
Registration No. G70-D240  
Plant ID No. 095-00075

Dear Mr. Schatz:

Your application for a registration as required by Section 5 of 45CSR13 - "Permits for Construction, Modification, Relocation and Operation of Stationary Sources of Air Pollutants, Notification Requirements, Temporary Permit, General Permit, and Procedures for Evaluation" has been approved. The enclosed registration G70-D240 is hereby issued pursuant to Subsection 5.7 of 45CSR13. Please be aware of the notification requirements in the registration which pertain to commencement of construction, modification, or relocation activities; startup of operations; and suspension of operations.

The source is not subject to 45CSR30.

In accordance with 45CSR22 - Air Quality Management Fee Program, the permittee shall not operate nor cause to operate the permitted facility or other associated facilities on the same or contiguous sites comprising the plant without first obtaining and having in current effect a Certificate to Operate (CTO). Such Certificate to Operate (CTO) shall be renewed annually, shall be maintained on the premises for which the Certificate has been issued, and shall be made immediately available for inspection by the Secretary or his/her duly authorized representative.

Any person whose interest may be affected, including, but not necessarily limited to, the applicant and any person who participated in the public comment process, by a permit issued, modified or denied by the Secretary may appeal such action of the Secretary to the Air Quality

Promoting a healthy environment.

Board pursuant to article one [§§22B-1-1 et seq.], Chapter 22B of the Code of West Virginia.  
West Virginia Code §§22-5-14.

Should you have any questions or comments, please contact me at (304) 926-0499,  
extension 1687.

Sincerely,

A handwritten signature in black ink, appearing to read 'Richard A. Boehm', with a long horizontal flourish extending to the right.

Richard A. Boehm, P.E.  
Engineer

Enclosure

c: Elizabeth McLaughlin ([emclaughlin@anteroresources.com](mailto:emclaughlin@anteroresources.com))

*West Virginia Department of Environmental Protection  
Division of Air Quality*

*Jim Justice  
Governor*

*Austin Caperton  
Cabinet Secretary*

**Class II General Permit  
G70-D Registration to Construct**



for the  
Prevention and Control of Air Pollution in regard to the  
Construction, Modification, Relocation, Administrative Update and  
Operation of Natural Gas Production Facilities Located at the Well Site

*The permittee identified at the facility listed below is authorized to  
construct the stationary sources in accordance  
with all terms and conditions of General Permit G70-D.*

**G70-D240**

Issued to:

**Antero Resources Corporation**

**Ritchie Well Pad**

**095-00075**

A handwritten signature in blue ink, appearing to read "William F. Durham", is written over a horizontal line.

*William F. Durham*

*Director*

*Issued: April 14, 2017*

Facility Location: Pennsboro, Tyler County, West Virginia  
Mailing Address: 1615 Wynkoop Street, Denver, CO 80202  
NAICS Code: 211111  
SIC Code: 1311  
Longitude Coordinates: -80.97581  
Latitude Coordinates: 39.35913  
Registration Type: Construction  
Description of Change: Facility plans to install (12) 1.5 MMBtu/hr GPUs, (12) 2.0 MMBtu/hr line heaters, (10) condensate tanks, (4) produced water tanks, (4) enclosed combustors, (8) HP 76-hp VRU compressor engines, and (3) LP 76-hp VRU compressor engines.

*Any person whose interest may be affected, including, but not necessarily limited to, the applicant and any person who participated in the public comment process, by a permit or registration issued, modified or denied by the Secretary may appeal such action of the Secretary to the Air Quality Board pursuant to article one [§§ 22B-1-1 et seq.], Chapter 22B of the Code of West Virginia. West Virginia Code §22-5-14.*

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*The source is not subject to 45CSR30.*

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The registered natural gas production facility granted Class II General Permit registration by the Director shall not have a potential to emit any criteria pollutant in an amount equal to or greater than the following:

<b>Pollutant</b>	<b>Maximum Annual Emission Limit (tons/year)</b>
Nitrogen Oxides	50
Carbon Monoxide	80
Volatile Organic Compounds	80
Particulate Matter – 10/2.5	20
Sulfur Dioxide	20
Any Single Hazardous Air Pollutant	8
Total Hazardous Air Pollutants	20

**G70-D Annual Certification.** Annually from the date of the original registration issuance, the registrant shall prepare and submit a G70 Annual Certification for the previous year, addressing the potential emissions from the facility (using a generally accepted model or calculation methodology) and an updated Emission Units/ERD/APCD table (if necessary). The registrant shall pay an annual \$1,000 certification fee to the Director. The fee shall be paid by negotiable instrument made payable to the "DEP-Division of Air Quality".

**The G70-D Annual Certification is due by April 14th of each calendar year.**

## Permit Section Applicability for the Registrant

*All registered facilities under General Permit G70-D are subject to Sections 1.0, 2.0, 3.0, and 4.0 of General Permit G70-D.*

The following additional sections of General Permit G70-D240 apply to the registrant:

GENERAL PERMIT G70-D APPLICABLE SECTIONS	
X Section 5.0	Gas and Oil Well Affected Facility (NSPS, Subpart OOOO/OOOOa)
X Section 6.0	Storage Vessels Containing Condensate and/or Produced Water <sup>1</sup>
<input type="checkbox"/> Section 7.0	Storage Vessel Affected Facility (NSPS, Subpart OOOO/OOOOa)
X Section 8.0	Control Devices and Emission Reduction Devices not subject to NSPS Subpart OOOO/OOOOa and/or NESHAP Subpart HH
X Section 9.0	Small Heaters and Reboilers not subject to 40CFR60 Subpart Dc
<input type="checkbox"/> Section 10.0	Pneumatic Controllers Affected Facility (NSPS, Subpart OOOO/OOOOa)
<input type="checkbox"/> Section 11.0	Pneumatic Pump Affected Facility (NSPS, Subpart OOOOa)
X Section 12.0	Fugitive Emissions GHG and VOC Standards (NSPS, Subpart OOOOa)
X Section 13.0	Reciprocating Internal Combustion Engines, Generator Engines
X Section 14.0	Tanker Truck/Rail Car Loading <sup>2</sup>
<input type="checkbox"/> Section 15.0	Glycol Dehydration Units <sup>3</sup>

- 1 Applicants that are subject to Section 6 may also be subject to Section 7 if the applicant is subject to the NSPS, Subpart OOOO control requirements or the applicable control device requirements of Section 8.*
- 2 Applicants that are subject to Section 14 may also be subject to control device and emission reduction device requirements of Section 8.*
- 3 Applicants that are subject to Section 15 may also be subject to the requirements of Section 9 (reboilers). Applicants that are subject to Section 15 may also be subject to control device and emission reduction device requirements of Section 8.*